

IN THE CLAIMS

Please cancel claims 46-50 without prejudice or disclaimer and amend the remaining claims as follows:

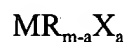
1.-29. CANCELLED

30. (Currently Amended) A process for producing a solid catalyst component for olefin polymerization, which comprises the step of contacting a solid catalyst component precursor (C) containing a magnesium atom, a titanium atom and a hydrocarbyloxy group, the hydrocarbyloxy group having 10 to 20 carbon atoms, with a halogeno compound (A) of the 13(~~IIIa~~) or 14(~~IVa~~) group of elements in the periodic table of the elements, and an electron donor (B), the electron donor being selected from the group consisting of an organic acid esters, and ethers, wherein the solid catalyst component precursor (C) is a trivalent titanium atom-containing solid product obtained by reducing a titanium compound (2) represented by the following formula,



wherein R¹ is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying $0 < a \leq 4$ with an organomagnesium compound (3) in the presence of an organosilicon compound (l) having an Si-O bond.

31. (Currently Amended) The process for producing a solid catalyst component for olefin polymerization according to Claim 30, wherein the halogeno compound (A) is a compound represented by the following formula,



wherein M is an atom belonging to the 13(~~IIIa~~) or 14(~~IVa~~) group of elements in the periodic table of the elements, R is a hydrocarbon group having 1 to 20 carbon atoms, X is the a halogen atom, m is a valence of M, and "a" is a number satisfying $0 < a \leq m$.

32. (Previously Presented) The process for producing a solid catalyst component for olefin polymerization according to Claim 30, wherein the halogeno compound (A) is a compound represented by the following formula,



wherein R is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying $0 < a \leq 4$.

33. (Currently Amended) The process for producing a solid catalyst component for olefin polymerization according to Claim 30, wherein the electron donor (B) is ~~an organic acid ester or an ether.~~

34. (Previously Presented) The process for producing a solid catalyst component for olefin polymerization according to Claim 30, wherein the electron donor (B) is a dialkyl ester of a phthalic acid.

35. (Currently Amended) The process for producing a solid catalyst component for olefin polymerization according to Claim 30, where said step of contacting comprises contacting ~~a wherein the~~ solid catalyst component precursor (C) being is a trivalent titanium atom-containing solid product obtained by reducing a titanium compound (2) represented by the following formula,



wherein R¹ is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying $0 < a \leq 4$, with an organomagnesium compound (3) in the presence of an organosilicon compound (1) having an Si-O bond and a porous carrier (4) with the halogeno compound and electron donor.

36. (Currently Amended) The process for producing a solid catalyst component for olefin polymerization according to Claim 30, 35, wherein said step of contacting comprises contacting a wherein the solid catalyst component precursor (C) being a trivalent titanium atom-

containing solid product obtained by reducing a titanium compound (2) represented by the following formula,



wherein R¹ is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying 0 < a ≤ 4, with an organomagnesium compound (3) in the presence of an organosilicon compound (I) having an Si-O bond and a porous carrier (4), wherein the porous carrier (4) is an organic porous polymer[[,]].

37. (Currently Amended) A process for producing a catalyst for olefin polymerization, which comprises the steps of:

(i) contacting a solid catalyst component precursor (C) containing a magnesium atom, a titanium atom and a hydrocarbyloxy group, the hydrocarbyloxy group having 10 to 20 carbon atoms, with a halogeno compound (A) of the 13(~~IIIa~~) or 14(~~IVa~~) group of elements in the periodic table of the elements, and an electron donor (B), the electron donor being selected from the group consisting of an organic acid ester and an ether, wherein the solid catalyst component precursor (C) is a trivalent titanium atom-containing solid product obtained by reducing a titanium compound (2) represented by the following formula,



wherein R¹ is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying 0 < a ≤ 4, with an organomagnesium compound (3) in the presence of an organosilicon compound (I) having an Si-O bond, to obtain a solid catalyst component (I) for olefin polymerization; and

(ii) contacting the solid catalyst component (I) with an organoaluminum compound (II).

38. (Currently Amended) A process for producing a solid catalyst component for olefin polymerization, which comprises the step of contacting an intermediate product with a compound (D) having a titanium-halogen bond, the intermediate product being obtained by contacting:

a solid catalyst component precursor (C) containing a magnesium atom, titanium atom and a hydrocarbyloxy group, the hydrocarbyloxy group having 10 to 20 carbon atoms, with a halogeno compound (A') of the 14(IVa) group of elements in the periodic table of the elements and an electron donor (B), the electron donor being selected from the group consisting of an organic acid ester and an ether, wherein the solid catalyst component precursor (C) is a trivalent titanium atom-containing solid product obtained by reducing a titanium compound (2) represented by the following formula,



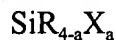
wherein R¹ is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying 0 < a ≤ 4, with an organomagnesium compound (3) in the presence of an organosilicon compound (I) having an Si-O bond.

39. (Currently Amended) The process for producing a solid catalyst component for olefin polymerization according to Claim 38, wherein the halogeno compound (A') is a compound represented by the following formula,



wherein M is an atom belonging to the 14(IVa) group of elements in the periodic table of the elements, R is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, m is a valence of M, and "a" is a number satisfying 0 < a ≤ m.

40. (Previously Presented) The process for producing a solid catalyst component for olefin polymerization according to Claim 38, wherein the halogeno compound (A') is a compound represented by the following formula,



wherein R is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying 0 < a ≤ 4.

41. (Previously Presented) The process for producing a solid catalyst component for olefin polymerization according to Claim 38, wherein the electron donor (B) is an organic acid ester or an ether.

42. (Previously Presented) The process for producing a solid catalyst component for olefin polymerization according to Claim 38, wherein the electron donor (B) is a dialkyl ester of a phthalic acid.

43. (Previously Presented) The process for producing a solid catalyst component for olefin polymerization according to Claim 38, wherein the solid catalyst component precursor (C) is a trivalent titanium atom-containing solid product obtained by reducing a titanium compound (2) represented by the following formula,



wherein R^1 is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying $0 < a \leq 4$, with an organomagnesium compound (3) in the presence of an organosilicon compound (1) having an Si-O bond and a porous carrier (4).

44. (Previously Presented) The process for producing a solid catalyst component for olefin polymerization according to Claim 43, wherein the porous carrier (4) is an organic porous polymer.

45. (Currently Amended) A process for producing a catalyst for olefin polymerization, which comprises the steps of:

(i) contacting an intermediate product with a compound (D) having a titanium-halogen bond, the intermediate product being obtained by contacting a solid catalyst component precursor (C) containing a magnesium atom, titanium atom and a hydrocarbyloxy group, the hydrocarbyloxy group having 10 to 20 carbon atoms, with a halogeno compound (A') of the 14(~~IVa~~) group of elements in the periodic table of the elements and an electron

donor (B), the electron donor being selected from the group consisting of an organic acid ester, and an ether, wherein the solid catalyst component precursor (C) is a trivalent titanium atom-containing solid product obtained by reducing a titanium compound (2) represented by the following formula,



wherein R^1 is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom, and "a" is a number satisfying $0 < a \leq 4$, with an organomagnesium compound (3) in the presence of an organosilicon compound (I) having an Si-O bond, to obtain a solid catalyst component (I') for olefin polymerization; and

(ii) contacting the solid catalyst component (I') with an organoaluminum compound (II).

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